$$f(x) = \frac{1 - x^2}{e^x} (e^{-x})$$

010000 
$$f(x)$$
000  $X$ 00000  $Y = f(x)$ 0  $X = X$ 000000

$$20000 f(x) = m(m > 0) 20000 X_0 X_2 0000 | X - X_2 | < 2 - m(1 + \frac{1}{2e})$$

$$f(x) = \frac{1 - x^2}{e^x} = 0$$

$$f(x) = \frac{X^2 - 2X - 1}{e^x} f(-1) = 2e_0 f(-1) = 0$$

$$\int_{0}^{\infty} y = f(x) \Big|_{x=-1} = 1 = 0 = 0$$

$$y = 2e(x+1) \Big|_{x=-1} = 0 = 0$$

$$y = f(x) = 1$$

$$f(x) = \frac{x^2 - 2x - 1}{e^x}$$

$$0010000 \ X < -1_{\square} \ X > 1_{\square} \ f(x) < 0_{\square} - 1 < x < 1_{\square} \ f(x) > 0_{\square}$$

$$000000 X \in (-1,1)_{00} 2e(X+1) > f(X)_{0}$$

$$g(x) = e^{x^{n}1} + \frac{X^{n}1}{2} \times [-1_{0}1]_{000000}$$

$$\Box g(-1) = 0$$

$$\therefore g(x) > g(-1) = 0 \quad \forall x \in (-1,1)$$

$$\therefore \exists X \in (-1,1) \boxtimes 2e(X+1) > f(X) \boxtimes$$

$$\int_{0}^{\sqrt{y}=2e(x+1)} y=m \qquad x=\frac{m}{2e}-1 \qquad x=\frac{m}{2e}-1$$

$$000 X_1 < X_2 00 - 1 < X_1 < 1 - \sqrt{2} < X_2 < 1_0$$

$$|X - X_2| < |X - X_2| = X - X = X - (\frac{m}{2e} - 1)$$

$$|X - X_2| < 2 - m(1 + \frac{1}{2e})$$
  $X_2 - (\frac{m}{2e} - 1), 2 - m(1 + \frac{1}{2e})$   $X_2 - m(1 + \frac{1}{2e})$ 

$$m = \frac{1 - X_2^2}{e^{y_2}}$$

$$\therefore \square \square X_{2''} 1 - \frac{1 - X_{2}^{2}}{e^{y_{2}}} \square (X_{2} - 1) \square (e^{y_{2}} - (X_{2} + 1)), 0 \square$$

$$\therefore \varphi(\mathbf{X})...\varphi(0) = 0$$

$$\therefore e^{y_2} - (x_2 + 1) \dots 0$$

$$|X - X_2| < 2 - m(1 + \frac{1}{2e})$$

f(x) 00000000 y = f(x) 00000000000

$$000000100 \ f(x) = (e-x) \ln x = 0 \\ 00 \ X = 1 \\ 00 \ X = e_{000} \ f(x) \\ 0000 \ 10 \ e_{0}$$

$$f(x) = \frac{e}{x} - \ln x - 1$$

$$000 \quad f_{010} = e - 1_0 \quad f_{0e0} = -1_0$$

$$f(x) = \frac{e}{x} - \ln x - 1 \qquad f'(x) = -\frac{1}{x} - \frac{e}{x^2} < 0 \qquad f(x) = \frac{e}{x} - \ln x - 1 \qquad g(x) = (e - 1)(x - 1) = 0$$

$$h(x) = -x + e_{\square}$$

$$\prod_{x} m(x) = (e-1)(x-1) - (e-x) \ln x \qquad m(x) = \ln x - \frac{e}{x} + e \qquad m'(x) = \frac{1}{x} + \frac{e}{x^2} > 0$$

$$0000 f(x), f(x) = (e-x) hx, -x + e_0$$

$$\bigcirc g(x_i) > f(x_i) = m = g(x_j) \bigcirc g(x) = (e-1)(x-1) \bigcirc Q(x_i) = ($$

$$\prod_{i=1}^{m} \frac{m}{e-1} + 1 = X_{3} < X_{1} < X_{2} < X_{4} = e-m$$

 $|X - X_2| = X_2 - X < 1 + (m+1) = m+2$ 

$$400000 \ f(x) = (x+b)(e^x - a)(b>0) \ 00 \ (-1_0 \ f(-1)) \ 0000000 \ (e^-1)x + ey + e^-1 = 0 \ 0100 \ a_0 \ b_0$$

y = f(x) 0 X00000000 P00000 P000000 y = f(x) 0000000000 X000 f(x) X0000000000 X000 X00 X000 X00 X000 X000 X000 X000 X000 X000 X000 X000 X000 X

$$f(-1) = 0$$
  $f(-1) = (b-1)(\frac{1}{e} - a) = 0$ 

$$f(-1) = \frac{b}{e} - a = -\frac{e-1}{e} = -1 + \frac{1}{e}$$

$$a = \frac{1}{e_{00}}b = 2 - e < 0_{00}b > 0_{000}$$

$$\prod a = b = 1 \prod$$

$$000 \stackrel{Y=f(X)}{=} X_{000000000} \stackrel{P_0(-1,0)}{=} 0$$

$$P(-1,0) = I(x)$$

$$\Box h(x) = f(-1)(x+1) \Box$$

$$F(x) = f(x) - f(-1) = e^{x}(x+2) - \frac{1}{e_{\square}}F(-1) = 0$$

$$\square X < -1_{\square \square}$$

$$_{\square}F(x) < 0_{\square}F(x)_{\square}(-\infty, -1)_{\square \square \square \square \square}$$

$$\square X > -1$$

$$1/(x) = (\frac{1}{e} - 1)(x+1) \qquad h(x) = m_{000} x_{100}$$

$$X_{i} = -1 + \frac{me}{1 - e_{\square}}$$

$$\square \stackrel{f(x)}{\square \square \square \square \square \square} m = f(x_i) = f(x_i)...f(x_i) \square$$

$$000 \ \mathcal{Y} = f(x) \ 00 \ (0,0) \ 0000000 \ \mathcal{Y} = f(x) \ 00 \ f(x) = X_{\square}$$

$$T(x) = (x+2)e^{x} - 2$$

$$\square X$$
, - 2 $\square$   $T(X) = (X+2)e^x$  - 2, - 2<0 $\square$ 

$$\square X > -2 \square \square T(X) = (X+3)e^x > 0 \square$$

$$000 T(x) 0(-2,+\infty) 000000$$

$$T(0) = 0$$

$$= (0,+\infty) = (0,+\infty) =$$

$$\ \, \square^{f(x)\dots t(x)} \, \square$$

$$\square^{t(x)} = m_{\square\square\square}^{X_2} \square$$

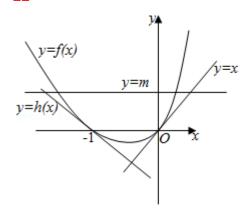
$$X_{2^{n}} = m$$

# 000 <sup>f(x)</sup> 00000

$$\square^{m=t(X_2)}=f(X_2)...t(X_2)_{\square}$$

$$\, \, \square^{\, X_{\!\scriptscriptstyle 2} \ldots \, X_{\!\scriptscriptstyle 2}} \, \square$$

$${\scriptstyle \begin{array}{c} X_{1''} & X_{1} \\ \end{array}}$$



$$5 = \int \partial u du = \int \int \partial u du = \int \int \partial u du = \int \partial u$$

0200 
$$f(x) - ax + e.0$$
0000000  $a$ 000000

$$30000 f(x) = m(m \in R) = m(x \in R$$

$$y = f(x) = 0$$

$$200 X = 0 00 a \in R_0$$

2 
$$X > 0$$
  $X > 0$   $X > 0$ 

$$g(x) = (x-1)e^x + \frac{e}{x} g(x) = xe^x - \frac{e}{x^2}$$

$$\therefore g(\mathbf{X}) _{\square} (0,1) _{\square \square \square \square} (1,+\infty) _{\square \square \square}$$

$$\therefore g(\mathbf{X})_{\,\square\,}(0,+\infty)_{\,\square\,\square\,\square\,\square\,\square}\,g_{\,\square\,\square\,\square}=e_{\,\square}$$

$$h(x) = (x-1)e^x + \frac{e}{x} \text{ if } (x) = xe^x - \frac{e}{x^2} < 0$$

$$\mathbb{I} \quad H(x) = (0, +\infty) \underset{\square}{\square} (0, +\infty) \xrightarrow{\square} H(x) \rightarrow 0$$

$$3000200 a = e_{00}(x^2 - x)e^x > ex - e_{0}$$

$$\varphi'(x) = (x^2 + x - 1) ex + 1_{\square} \varphi''(x) = (x^2 + 3x) e^x_{\square}$$

$$\therefore \varphi'(x)_{\square}(-\infty,-3)_{\square}(0,+\infty)_{\square\square\square\square}(-3,0)_{\square\square\square}$$

$$\varphi'(0) = 0_{\textstyle \bigcap_{i=1}^{\infty} X} > 0_{\textstyle \bigcap_{i=1}^{\infty} \varphi'(X)} > 0_{\textstyle \bigcap_{i=1}^{\infty} \varphi(X)} \bigcirc 0 = 0_{\textstyle \bigcap_{i=1}^{\infty} \varphi(X)} = 0$$

$$\therefore_{\square} X > 0_{\square\square} \varphi(X) > 0_{\square}$$

$$\bigcirc \mathcal{Y} = \mathcal{U}_{\square \square \square \square} \mathcal{Y} = - \mathcal{X}_{\square} \mathcal{Y} = \mathcal{A}(\mathcal{X} - 1)_{\square \square \square \square \square \square} \mathcal{X}_{\square} \mathcal{X}_{\square}$$

$$X_3 = -m_{\square} X_4 = \frac{m}{e} + 1$$

$$600000 \ f(x) = (x-1)h(x+1)_{000} \ y = f(x)_{00} \ (1,0)_{0000000} \ y = kx + h(k) = R_{00}$$

 $0100\,{}^{k}\!0\,{}^{b}\!000$ 

$$300009(x) = f(x) + m(m \in R) \frac{x}{100000} = \frac{x_1 - x_2 - x_3}{100000} = \frac{m}{100000}$$

000010000 
$$f(x)$$
 00000  $(-1, +\infty)$ 

$$f'(x) = \ln(x+1) + \frac{x-1}{x+1}$$

$$\dots \bigcup \mathcal{Y} = f(\mathcal{X}) \bigcup (1,0) \bigcup (1,0) \bigcup \mathcal{Y} = ht2(\mathcal{X} - 1) \bigcup \mathcal{Y} = xht2 - ht2 \bigcup (1,0)$$

$$\therefore k = \ln 2 \prod b = - \ln 2 \prod$$

$$200000 F(x) = f(x) - xh2 + h2 = (x-1)h(x+1) - xh2 + h2$$

$$F(x) = In(x+1) + \frac{x-1}{x+1} - In2$$

$$\varphi(x) = h(x+1) + \frac{x-1}{x+1} - h2 \qquad \varphi'(x) = \frac{1}{x+1} + \frac{2}{(x+1)^2} > 0$$

$$F(X)_{000000} = 0$$

$$\therefore \square \stackrel{X \in (-1,1)}{\square} \stackrel{P(x)}{\square} < 0_{\square} \stackrel{P(x)}{\square} = 0_{\square} \stackrel{P(x)}{\square$$

$$\square^{X \in (1,+\infty)} \square P(X) > 0 \square P(X)$$

$$\therefore F(x)_{nm} = F_{\square \square} = 0_{\square}$$

$$\therefore F(x) \dots 0_{\square}$$

$$\therefore f(x)...xln2-ln2$$

$$000000 y = f(x)_{0}(1,0)_{0000000} y = x \ln 2 - \ln 2$$

$$\therefore h(x_2) = f(x_2)...h(x_2)$$

$$X_2 \cdot X_2 \cdot X_2$$

$$f(0) = -1$$

$$\therefore t(x) = -x_{\square}$$

$$f(x_1)...h(x_l)$$

$$\therefore h(X') = f(X)...h(X)$$

### 

$$\therefore X_1' \leq X_1$$

$$|X_2 - X_1| = X_2 - X_1, X_2' - X_1' = 1 - m - \frac{m}{\ln 2}$$

$$300 = 10000 \times 1000 = m_{0000000000} \times 10^{-1} \times 10^{-$$

$$f(x) = alnx - \frac{1}{x_0} \therefore f_{e} = a - \frac{1}{e}$$

$$f_{e} = 0 \qquad \therefore g(x) = (a - \frac{1}{e})(x - e)$$

$$\therefore F(x) = f(x) - f_{e} = alnx - \frac{1}{x} - a + \frac{1}{e} (0, +\infty) + c = 0$$

$$0 < X < e_{\square} P(X) < 0 F(X)$$

$$\therefore F(\mathbf{X})..F_{\mathbf{e}} = 0$$

$$\therefore f(x)..g(x) = 0$$

$$300000 a = 100 f(x) = (hx-1)(x-1)00 f(x) = hx-\frac{1}{x_0}$$

$$f(x) = 1 - \frac{1}{e} > 0$$

$$\therefore \square \square X \in (1, \partial) \square f(X) = 0$$

$$\therefore \exists X \in (0, X_0) \underset{\square}{\longrightarrow} f(X) < 0 \underset{\square}{\longrightarrow} f(X) \underset{\square}{\longrightarrow} 0$$

$$\prod H(x) = f(x) - H(x) = (\ln x - 1)(x - 1) - (-x + 1) = (x - 1) \ln x$$

$$\therefore H(x)..0_{\square\square\square\square}$$

$$g(x) = h(x) = m_{000} X_2' = \frac{em}{e-1} + e X_1' = 1 - m_{000}$$

$$|X_2 - X_1| < |X_2| - |X_1| = m(1 + \frac{e}{e-1}) + e-1$$

80000 
$$f(x) = (x+1)(e^x - 1)$$

$$f(x) = (x+2)e^x - 1 \frac{f(-1)}{e^x} = \frac{1}{e^x} - 1, \quad (-1) = 0$$

$$y = \frac{1 - e}{e}(x+1)$$

$$y = \frac{1 - e}{e}(x+1)$$

$$S(x) = \frac{1 - e}{e}(x + 1) \qquad F(x) = f(x) - \frac{1 - e}{e}(x + 1) = (x + 1)(e^x - \frac{1}{e}) \qquad F(x) = (x + 2)e^x - \frac{1}{e}, F'(x) = (x + 3)e^x \qquad \Box$$

$$F(x)$$
  $(-\infty, -3)$   $(-\infty, -3)$ 

$$F(-3) = -\frac{1}{e^3} - \frac{1}{e} < 0, \lim_{x \to -\infty} F(x) = -\frac{1}{e}, F(-1) = 0$$

$$F(x)_0(-\infty,-1)_{0000000}(-1,+\infty)_{0000000}$$

$$\therefore F(x)...F(-1) = 0 \qquad f(x)...S(x) = \frac{1-e}{e}(x+1)$$

$$\lim_{n \to \infty} \frac{1 - e}{e} (x + 1) = b \lim_{n \to \infty} x^n = \frac{eb}{1 - e} - 1$$

$$\square b = S(X_1) = f(X_1) \dots S(X_l) \square$$

$$\begin{smallmatrix} S(X) & R_{00000000} & X_n & X_0 \\ \end{smallmatrix}$$

$$00000 f(x) = (1, 2e-2) = 0000000 y = (3e-1)x-e-1$$

$$G(x) = (x+2)e^x - 3\epsilon_{\square} G'(x) = (x+3)e^x_{\square}$$

$$\therefore G(x)_{\square}(-\infty,-3)_{\square\square\square\square\square\square\square}(-3,+\infty)_{\square\square\square\square\square\square\square}$$

$$G(-3) = -\frac{1}{e^3} - 3e < 0, \lim_{x \to -\infty} G(x) = -3e, G(1) = 0$$

$$\therefore G(x) = (-\infty,1) = 0 = 0 = 0 = (1,+\infty) = 0 = 0 = 0$$

$$\therefore G(x)...G_{\fbox{\scriptsize 10}} = 0 \ \ \text{or} \ \ f(x)...t(x) = (3e-1)x-e-1 \ \ \text{or} \ \ x=-1 \ \ x=-$$

$$X_{2''}$$
  $X_{2''}$ 

$$X_2 - X_{11}, X_2 - X_1 = 1 + \frac{b+c+1}{3c-1} + \frac{cb}{c-1}$$

900000 
$$f(x) = (x+1)(e^x - 1)$$

$$2000 \stackrel{f(x)...ax}{=} R_{000000} \stackrel{a}{=} 000$$

$$30000 f(x) = b_{000000} x_0 x_2 x_2 x_3 x_4 < x_2 x_2 x_4 + \frac{eb}{e-1}$$

$$0000001000 f(x) = (x+1)(e^{x}-1)_{00} f(x) = (x+2)e^{x}-1_{00}$$

$$f(-1) = \frac{1}{e} - 1$$
  $f(-1) = 0$ 

$$\int h'(x) = (x+2)e^x - 1 - a$$

$$\prod m(x) = (x+2)e^x \prod m(x) = (x+3)e^x \prod$$

$$m(0) = 2 \prod h'(0) = 1 - a \prod h(0) = 0$$

$$0^{h(X)} = 0 = 0$$

$$a > 1$$
  $X = (x + 2)e^x = a + 1$   $X = X > 0$ 

$$h(x)$$
<sub>0</sub> $(0, \chi)$ <sub>0000000</sub> $h(x)$ ... $h(0)$ <sub>000</sub>

$$a < 1$$
  $M(x) = (x+2)e^{x} = a+1$   $X_0 - 3 < X_0 < 0$ 

$$h(x)_{\square}(x_{\square}^{\square})_{\square\square\square\square\square\square\square}h(x)...h(0)_{\square\square\square}$$

$$00000 a = 10$$

$$30000 f(x) = (x+2)e^x - 1$$

$$0 \int f(x) \left[ (-\infty, -3) \right] dx = f(x) < 0$$

$$f(x)_{0}(-3,+\infty)_{000000}f(x)=0_{00000}$$

$$f(-1) = (-1+2)\mathcal{C}^1 - 1 < 0$$

$$\int f(x) = 0_{000} t_{000} f(-1) \cdot (0) < 0_{00} t \in (-1,0)_{0}$$

$$0000 f(x) = b_{000000} X_0 X_2 00 b > f(t)_0$$

$$000100200 f(x)...\frac{1-e}{e}(x+1) f(x)...x_0 R_{000000}$$

$$b = \frac{1 - e}{e}(X + 1) \bigcup_{0 \in X_3 \cup X_4 \cup X_4$$

$$\underset{\square\square\square}{\square} X \in (-\infty, -1) \underset{\square\square}{\square} F(X) < 0 \underset{\square\square}{\square} X \in (-1, +\infty) \underset{\square\square}{\square} F(X) > 0 \underset{\square}{\square}$$

0000 
$$F(x)$$
 000  $(-\infty, -1)$  00000000  $(-1, +\infty)$  000000

$$f(X_1)...f(X_n)$$

$$h(x) = m_{000} x'_{000} x'_{000} = 1 + \frac{me}{1 - e_0}$$

$$\lim_{n\to\infty} h(x)_{n\to\infty} = f(x_1)...h(x_k)_{n\to\infty} X_1^{r,n} X_{n\to\infty}$$

$$y = f(x) = (0,0) = 0$$

$$X_{i} - 2 \square T(X) = (X+2)e^{x} - 2 < -2 < 0$$

$$\square X > -2 \square \square$$

$$0 \longrightarrow X \in (-\infty,0) \longrightarrow T(X) < 0 \longrightarrow X \in (0,+\infty) \longrightarrow T(X) > 0 \longrightarrow T(X$$

$$= 2 \left( \frac{1}{2} \left( \frac{1}{2} \right) \right) = 2 \left( \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}{2} \left( \frac{1}{2} \right) \right) = 2 \left( \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}{2} \left( \frac{1}{2} \right) \right) = 2 \left( \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \left( \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \right) = 2 \left( \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \left( \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \right) = 2 \left( \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \left( \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \right) = 2 \left( \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \left( \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \left( \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \left( \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \left( \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \left( \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \left( \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \left( \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \left( \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}{2} \right)$$

$$T(x)...T(0) = 0$$

$$f(X_2)...f(X_2)$$

$$000 \stackrel{t}{=} (X) 000000 \stackrel{t}{=} (X_2^-) = f(X_2^-) \dots \stackrel{t}{=} (X_2^-) 000 \stackrel{X_2^-}{=} X_2^- \dots \stackrel{X_2^-}{=} 0$$

$${\scriptstyle \begin{array}{c} X_1''' & X_1 \\ \end{array}}$$

$$X_2 - X_{11}, X_2' - X_1' = m - (-1 + \frac{me}{1 - e}) = 1 + \frac{m(1 - 2e)}{1 - e}$$

$$11 \text{ and } f(x) = x \text{ in } x$$

$$010000 y = f(x) 00 (e^2 0 f(e^2)) 0000000$$

$$20000 \ X_{000} \ f(x) = a_{00000000} \ X_{0} \ X_{2} (X_{1} < X_{2}) \ 0000 \ X_{2} - \ X_{1} < 1 + 2a + e^{2} \ 0$$

$$00000010 f(x) = \ln x + 1_{00} f(e^{2}) = -1_{00} f(e^{2}) = -2e^{2}_{0}$$

$$\therefore 00000 y + 2e^2 = -(x - e^2) 00 y = -x - e^2$$

$$020000000 f(x) = xlnx... x- e^{2}$$

$$\square \mathcal{G}(x) = x \ln x + x + e^{2}(x > 0) \square \mathcal{G}(x) = \ln x + 2 \square$$

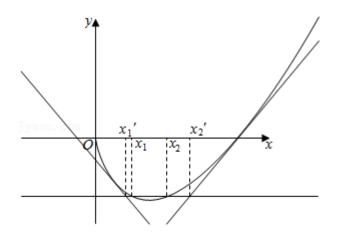
$$\prod_{x \in \mathcal{X}} f(x) = x \ln x \cdot x - 1 \prod_{x \in \mathcal{X}} h(x) = x \ln x - x + 1(x > 0) \prod_{x \in \mathcal{X}} h(x) = \ln x$$

$$0000 \stackrel{h(X)}{=} (0,1) \quad 00000 \stackrel{(1,+\infty)}{=} 0000$$

00000 
$$y = a_{000} y = -x - e^2 y = x - 1_{0000000000} x_0 x_2$$

$$a = X_2 - 1 = f(X_2) ... X_2 - 1_{00} X_2 ... X_2 - 0_{00000} a = 0_{000000}$$

$$X_2 - X_1 < X_2 - X_1 = a+1-(-a-e^2) = 2a+1+e^2$$



1200000 
$$f(x) = 2\sin x - x^2 + 2\tau x - a_0$$

$$0 = 0 = 0 = 0$$

$$\lim_{n \to \infty} f(x) = \int_{0}^{\infty} f(x) = \int_{0$$

$$\therefore y = f(x) \prod_{x \in X} R_{000000}$$

$$f(0) = 2 + 2\tau > 0 f(\pi) = -2\tau < 0$$

$$\square \stackrel{X \in (X, \square^{+\infty})}{\square} \stackrel{f(x)}{\square} \stackrel{f(x)}{\square} \stackrel{f(x)}{\square} \stackrel{X \in (X, \square^{+\infty})}{\square} \stackrel{\square}{\square} \square$$

$$\therefore f(x)_{max} = f(x_0)_{\square}$$

$$\therefore y = F(x) \underset{\square}{} R_{\square \square \square \square \square \square}$$

$$F(0) = 0$$

$$\therefore \mathbb{R}^{X \in (-\infty,0)} \cap F(X) < 0 \cap F(X) \cap (-\infty,0) \cap (-\infty,0)$$

$$\square^{X \in (0,+\infty)} \square^{P(X) > 0} \square^{P(X)} \square^{(0,+\infty)} \square \square \square$$

$$F(x) ... F(0) = 0$$
  $C(2 + 2\tau) x . 2\sin x - x^2 + 2\tau x$ 

$$y = (2 + 2\pi) X_{0} y = a_{0000000} X_{300} (2 + 2\pi) X_{1} . . 2 \sin X_{1} - X_{1}^{2} + 2\pi X_{1} = a = (2 + 2\pi) X_{300}$$

$$X_5 = \frac{a}{(2+2\pi)^n} X_1$$

$$\Box \Box \Box G(x) = (2 - 2\tau)(x - 2\tau) - 2\sin x + x^2 - 2\tau x \\ \Box \Box G(x) = 2 - 4\tau - 2\cos x + 2x \\ \Box G'(x) = 2\sin x + 2 \cdot 0 \\ \Box \Box G(x) = (2 - 2\tau)(x - 2\tau) - 2\sin x + x^2 - 2\tau x \\ \Box \Box G(x) = (2 - 2\tau)(x - 2\tau) - 2\sin x + x^2 - 2\tau x \\ \Box \Box G(x) = (2 - 2\tau)(x - 2\tau) - 2\sin x + x^2 - 2\tau x \\ \Box \Box G(x) = (2 - 2\tau)(x - 2\tau) - 2\sin x + x^2 - 2\tau x \\ \Box \Box G(x) = (2 - 2\tau)(x - 2\tau) - 2\sin x + x^2 - 2\tau x \\ \Box G(x) = (2 - 2\tau)(x - 2\tau)(x - 2\tau) - 2\sin x + x^2 - 2\tau x \\ \Box G(x) = (2 - 2\tau)(x - 2\tau)(x - 2\tau)(x - 2\tau) - 2\cos x + 2\tau \\ \Box G(x) = (2 - 2\tau)(x - 2\tau)(x$$

$$\therefore y = G(x) \cap R_{\square \square \square \square \square \square}$$

$$\Box^{G(2\tau)=0} \Box$$

$$\therefore_{\square} X {\in} (-\infty, 2\tau) \underset{\square}{\square} G(X) {<} 0_{\square} G(X)_{\square} (-\infty, 2\tau)_{\square \square \square \square \square \square}$$

$$\square^{X \in (2\tau, +\infty)} = G(X) > 0 = G(X) = (2\tau, +\infty) = 0 = 0 = 0$$

$$\therefore G(x)...g(2\tau) = 0_{\square \square} (2 - 2\tau)(x - 2\tau)...2\sin x - x^2 + 2\tau x_{\square}$$

$$y = (2 - 2\tau)(x - 2\tau) \xrightarrow{\text{000000}} X_4 = \frac{a}{2 - 2\tau} + 2\tau ... X_2$$

$$X_2 - X_{11} X_3 - X_5 = \frac{4\tau a}{(2 - 2\tau)(2 + 2\tau)} + 2\tau = \frac{a\tau}{1 - \tau^2} + 2\tau$$

$$\therefore \frac{1-\pi^2}{\pi}(X_2-X_1-2\pi)...a$$

1300000 
$$f(x) = nx - x^n$$
  $x \in R_{000} n \in N_0 n.2_0$ 

a20000 Y = f(x) a Xaoooooo Paoooo Paoooo Y = g(x) aaoooooooo Xaoo f(x), g(x) a

$$300 n = 50000 X_{000} f(x) = d(a_{0000000000} X_{0} X_{0} X_{0000} | X_{0} X_{0} | X_{0} - X_{0} | X$$

$$000000100 f(x) = nx - x^{n}_{000} f(x) = n - nx^{n-1} = n(1 - x^{n-1})_{000} n \in N_{00} n.2_{0}$$

#### 000000000

① 
$$D_{00000} f(x) = 0_{000} x = 1_{00} x = -1_{00}$$

## $\square^{X_{0000}} f(x) \square^{f(x)_{000000000}}$

X	(-∞,-1)	(- 1, 1)	(1, +∞)
---	---------	----------	---------

f(x)	-	+	-
f(x)			00

$$000 \ f(\textbf{x}) \ 0 \ (-\infty, -1) \ 0 \ (1, +\infty) \ 0000000 \ (-1, 1) \ 000000$$

#### $\textcircled{2} \, \square^{\, \mathcal{D}} \square \square \square \square$

$$\int f(x) > 0_{00} X < 1_{0000} f(x)_{00000}$$

$$000 \ f(\textbf{x}) \ 0 \ (-\infty,1) \ 000000 \ (1,+\infty) \ 000000$$

$$2000000 P_{0000}(X_{0}0)_{00}X_{0} = n^{\frac{1}{p-1}} f(X_{0}) = n - n^{2} 0$$

$$\prod_{n \in \mathcal{N}} f(x) = -n X^{n-1} + n \prod_{n \in \mathcal{N}} (0, +\infty) \prod_{n \in \mathcal{N}} F(x) \prod_{n \in \mathcal{N}} (0, +\infty) \prod_{n \in \mathcal{N}} F(x)$$

$$\bigcap_{\Omega \subseteq \Omega} F(\chi) = 0 \bigcap_{\Omega \subseteq \Omega} x \in (0,\chi) \bigcap_{\Omega \subseteq \Omega} F(x) > 0 \bigcap_{\Omega \subseteq \Omega} x \in (\chi_{\Omega} + \infty) \bigcap_{\Omega \subseteq \Omega} F(x) < 0 \bigcap_{\Omega \subseteq \Omega} F(x) = 0$$

000000000 
$$X_{000} F(x), F(x_0) = 0$$

$$00200 g(x) = (n-n^2)(x-x_0) 0000 g(x) = a_{000} x_2$$

$$X_{\underline{y}'} = \frac{a}{n^{-} n^{2}} + X_{\underline{y}} = 0$$

000000 
$$y = f(x)$$
 000000000  $y = h(x)$  000  $h(x) = nx$ 

$$0000000 X \in (0,+\infty) \bigcap f(x) < h(x)$$

$$\lim_{n \to \infty} h(x) = a_{000} X_{1000} X_{1000} = \frac{a}{n_{000}}$$

$$\prod h(x) = nx \left[ (-\infty, +\infty) \right]$$

$$X_2 - X_1 < X_2 - X_1 = \frac{\partial}{1 - D} + X_0$$

$$00 n.2 000 2^{n-1} = (1+1)^{n-1}..1 + C_{n-1} = 1 + n-1 = n$$

$$0.01 \cdot n^{\frac{1}{n+1}} = X_0 \cdot 0.01 \mid X_2 - X_1 \mid X_2 + \frac{a}{1 - n_0}$$

$$000 n = 5 0000 | X_2 - X_1 | 2 - \frac{a}{4}$$

**14**\_\_\_\_\_\_ 
$$f(x) = nx - x^n$$
\_\_\_\_\_  $x \in R_{000} \ n \in N_{00} \ n . 2_0$ 

01000 <sup>f(x)</sup>00000

0000000001400

$$\prod_{n \in \mathbb{N}} f(x) = nx - x^n \prod_{n \in \mathbb{N}} f(x) = n - nx^{n-1} = n(1 - x^{n-1}) \prod_{n \in \mathbb{N}} n \cdot 2 \prod_{n \in$$

X	(- ∞,- 1)	(- 1,1)	(1,+∞)
f(x)	-	+	-
f(x)	A	1	7

$$000 \ f(\textbf{x}) \ 0 \ (-\infty, -1) \ 0 \ (1, +\infty) \ 0000000 \ (-1, 1) \ 000000$$

#### $0200^{11}00000$

$$\int_{0}^{\infty} f(x) > 0 = X < 1 = 0$$

$$\int f(x) < 0_{00} x > 1_{0000} f(x)_{00000}$$

$$000 \ f(\textbf{x}) \ 0 \ (-\infty,1) \ 000000 \ (1,+\infty) \ 000000$$

$$f(x) = -nx^{n-1} + n_0(0, +\infty) = 0$$

$$000000000 X_{000} F(X), F(X) = 0$$

$$g(x) = a_{000} X_2' X_2' = \frac{a}{n - n^2} + X_0$$

$$\operatorname{conion} \mathcal{G}(X_{\underline{i}})...f(X_{\underline{i}}) = a = \mathcal{G}(X_{\underline{i}}') \operatorname{con} X_{\underline{i},,,} X_{\underline{i}}' \operatorname{con}$$

0000000 
$$y = f(x)$$
 0000000000  $y = h(x)$  0

$$\bigsqcup h(x) = nx \bigsqcup x \in (0,+\infty) \bigsqcup f(x) - h(x) = -x^n < 0 \bigsqcup$$

$$0000000 X \in (0,+\infty)_{\square} f(x) < h(x)_{\square}$$

$$\int h(x) = a_{000} X'_{000} X' = \frac{a}{n_0}$$

$$\prod h(x) = nx_{\square} \left( -\infty, +\infty \right) = 0$$

$$\prod_{i} X_i^{i'} \leq X_i$$

$$X_{2} - X_{1} < X_{2}' - X_{1}' = \frac{\partial}{1 - D} + X_{0}$$

$$00 n.2_{000} 2^{n.1} = (1+1)^{n.1}..1 + C_{n-1}^{1} = 1 + n-1 = n_{0}$$

$$|X_2 - X_1| < \frac{a}{1-n} + 2$$

$$1500000 f(x) = 4x - x^4 x \in R_0$$

0000010000 
$$f(x) = 4x - x^4_{000} f(x) = 4 - 4x^3_{00}$$

$$\int f(x) > 0_{00} X < 1_{0000} f(x)_{00000}$$

$$\int f(x) < 0_{00} x > 1_{0000} f(x)_{00000}$$

$$\lim_{0 \to \infty} p_{0000}(x_0^{-0}) = 4^{\frac{1}{5}} f(x_0^{-1}) = 12_0^{-1}$$

$$y = f(x) \underset{\square}{\square} P_{\square \square \square \square \square \square} y = f(x_{0})(x - x_{0}) \underset{\square}{\square} g(x) = f(x_{0})(x - x_{0}) \underset{\square}{\square}$$

$$F(x) = f(x) - g(x) \underset{\square}{\square} F(x) = f(x) - f(x)(x - x_0) \underset{\square}{\square}$$

$$\prod F(x) = f(x) - f(x_0)$$

$$\mathbb{I} F(\mathbf{X}) = 0 \text{ if } \mathbf{X} \in (-\infty, \mathbf{X}) \text{ if } F(\mathbf{X}) > 0 \text{ if } \mathbf{X} \in (\mathbf{X}_{\square} + \infty) \text{ if } F(\mathbf{X}) < 0 \text{ if } \mathbf{X} \in (\mathbf{X}_{\square} + \infty) \text{ if } F(\mathbf{X}) < 0 \text{ if } \mathbf{X} \in (\mathbf{X}_{\square} + \infty) \text{ if } \mathbf{X} \in (\mathbf{X$$

$$\therefore F(\mathbf{X})_{\square}(-\infty, \mathbf{X})_{\square\square\square\square\square\square\square}(\mathbf{X}_{\square}^{+\infty})_{\square\square\square\square\square\square}$$

$$\therefore \square \square \square \square \square X \square F(x), F(x) = 0 \square \square \square \square \square X \square \square F(x), g(x) \square$$

$$0 = 12(x - 4^{\frac{1}{3}}) = 0 = 0$$

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$$\square\square^{X_{\!\!2^{\prime\prime}}} \, X_{\!\!2^{\prime\prime}} \, \square$$

0000000 
$$y = f(x)$$
 0000000000  $y = H(x)$  000  $h(x) = 4x$ 

$$\int h(x) = a_{000} X'_{000} X'_{00} = \frac{a}{4}$$

$$\square\square^{X_1^{'},,X_1^{'}}\square$$

$$X_2 - X_{11}, X_2' - X_1' = -\frac{a}{3} + 4^{\frac{1}{3}}$$



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